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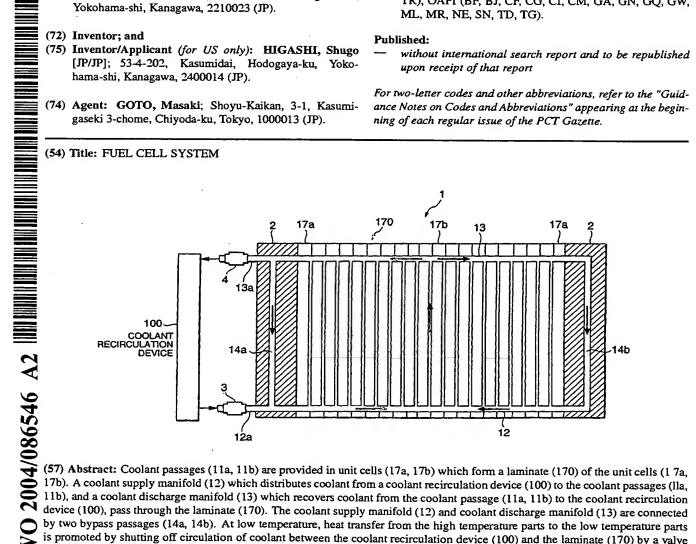
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- (71) Applicant (for all designated States except US): NISSAN MOTOR CO. LTD. [JP/JP]; 2, Takara-cho, Kanagawa-ku, Yokohama-shi, Kanagawa, 2210023 (JP).

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by two bypass passages (14a, 14b). At low temperature, heat transfer from the high temperature parts to the low temperature parts is promoted by shutting off circulation of coolant between the coolant recirculation device (100) and the laminate (170) by a valve (3, 4), and recirculating coolant inside the fuel cell stack (1) via the bypass passages (14a, 14b).

